

TO CORRESPONDENTS.

S. & B., of L. I.—Your draft for \$20 came duly to hand, and was promptly honored.

B. L., of Iowa—Three chisels are all that belong to Alcott's mortising machine. You got the requisite number.

C. F., of N. Y.—The peculiarities of the wheel of a carriage could not be embodied in the same application with the "reach," or any other part of the vehicle, unless the one part had some particular action upon the other. The diagram you send is precisely like Helton's, described on page 148, Vol. 6, Sci. Am. Try again, you will hit upon something patentable yet.

J. M. G., of Ohio—The drawing of your machine for packing flour seems to us to be new; we think it illustrates a patentable invention.

O. M., of Mass.—Your application is filed; you can go on manufacturing as rapidly as you please.

D. T., of Mass.—We should think the Camera Lucida to be inferior to the Camera Obscura for the use you mention.

T. H. D., of N. H.—Your last remittance of \$7 is received, which balances our account against you.

E. C., of N. Y.—The question as to whether the Commissioner did you justice in 1842, we cannot decide; it would appear, however, from the emphatic letter to Hon. Byram Green, that no chance existed at all for your claims. The case referred to about withdrawing the papers, was a different one from yours. The Commissioner can return you the papers, but will not after the \$20 are withdrawn. We shall preserve the letters sent subject to your order.

G. W. S., of Pa.—The numbers you order of Vol. 3 cannot be supplied.

D. G. S., of N. Y.—There is nothing in your plan of taking the outline of drawings, we believe it is practiced very generally.

A. R., of Mass.—We think your method of roofing new and patentable: it is not so cheap as the zinc roofing but it will make a durable covering. A large model, 1 foot square, together with the patent fee of \$30, and a full description, will be required before any measures can be taken to secure it.

J. B., of Pa.—Such a mortising machine as you want can be had of S. C. Hills, 12 Platt st. You require one to bore and mortise at one operation—Swingle's patent does this.

A. A., of Geo.—Messrs. Geo. Vail & Co., of Morristown, N. J., can furnish you all the particulars about the portable saw mills; they can furnish the saw mill irons.

W. R., of Vt.—Mr. Brundage, of Troy, N. Y., has, as we learn, an excellent horse-nail machine. We have examined several fine specimens of the work produced.

W. R., of R. I.—By reference to Vol. 3, Sci. Am. you will find an engraving of Bishop's Street Cleaning Machine. It is substantially similar to yours, and why it has not been employed we cannot say. We think Bishop's claims will cut you off.

A. H., of N. Y.—A machine was patented in England, about three years ago, for sewing harness. It made the saddle's stitch. We have never heard anything about it since. The ore you speak of is not uncommon; it is peculiar with some kinds of the Franklinite in New Jersey, and with many others. The reason is well known to mineralogists.

C. L., of Ct.—Your brake appears to be a very simple and good one. The principle, however, of the toggle joint was applied to a brake of Gurney's carriage in 1828. Yours has new features that we like.

A. R., of N. Y.—You will see something about stearine in another column.

J. A. R., of N. H.—The same chamber, placed behind the cylinders, on the suction pipe, is employed on fire engines. We have never seen it so placed on the common pump, but the application, we believe, would be considered unpatentable by the Patent Office.

E. N., of N. H.—We do not know of any chimney with the syphon. It appears to be patentable.

A. O., of N. Y.—The cars that go the fastest exert the greatest force on the bridge to break it.

W. K., of Miss.—We believe you are safe in using your wheel; we do not know of any other like it.

G. P. H., of N. Y.—Your remittance for Mr. P. was correct; continue your good work. A reply to your enquiry will be soon made.

A. E., of N. Y.—The plan you propose for stationary steam power on roads is the same as that which was employed on the first railroads, and as employed on steepest inclines yet. It is far more expensive than you are aware of; this we are perfectly sure of, as we know the expensiveness of the plan, by personal comparison.

Money received on account of Patent Office business for the week ending January 17.

C. S. of Ga., \$55; T. H. T., of N. Y., \$37; T. H. T., of N. Y., \$40; C. S. B., of N. Y., \$55; O. M., of N. Y., \$42; J. G., of Mass., \$40; R. T., of Pa., \$30; J. E. M., of Ct., \$20; F. C. G., of N. Y., \$30; C. R. M. W., of N. Y., \$25; E. P. R., of N. Y., \$30; N. A., of Pa., \$55; F. O., of N. Y., \$32; N. C., of Ct., \$12.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Jan. 17:—C. R. M. W., of N. Y.; E. P. R., of N. Y.; (2 cases); O. M., of Mass.; N. A., of Pa.; T. H. D., of N. H.; F. O., of N. Y.; N. C., of Ct.

New Edition of the Patent Laws.

We have just issued another edition of the American Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. We shall continue to furnish them for 12 1/2 cts. per copy.

An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

Back Numbers and Volumes.

In reply to many interrogatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement:

Of Volumes 1, 2 and 3—none.
Of Volume 4, about 20 Nos.; price 50 cts.
Of Volume 5, all but 4 numbers, price, in sheets, \$1, complete sets, bound, \$2.75.
Of Volume 6, all; price in sheets, \$2; bound, \$2.75.
Of Vol. 7, all back numbers at subscription price.

Patent Claims.

Persons desiring the claims of any invention which has been patented within fourteen years, can obtain a copy by addressing a letter to this office;—stating the name of the patentee, and enclosing one dollar as fee for copying

ADVERTISEMENTS.

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12 lines, 75 cts., " "
16 lines, \$1.00 " "
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American and Foreign Patent Agency

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M., until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

A STEAM ENGINE of 30 horse-power, for sale, with two boilers, furnace front, grate bars, copper pipe, heater, double-acting pump for cold and hot water, also Judson's patent Governor Valve, and Noyes & Allan's Metallic Packing—all complete and ready to be put in operation immediately. For particulars address HENRY BACMEISTER, Steam Engine Builder, Schenectady, N. Y. 19 4*

ONE DOUBLE ENGINE of six-horse power, second-hand, used about one year; the size of cylinders, 4 inch bore and 12 inch stroke, and furnished with pump, regulator, and all attachments; the boiler is horizontal tubular, 7 feet long, 3 1/2 inches in diameter, and requires no brick to set it, the fire being made inside the boiler. The above engine will be sold for \$400 cash, delivered in New York. MUNN & CO. 19 6*

ENGINE FOR SALE—An Upright Engine 6 1/2 horse-power, 18 inch stroke, 7 inch diameter; pumps, governor, all complete; 8 foot boiler, 3 feet diameter, two flues; cast-iron head, grate bars, &c.—built in 1848, has run 8 month in all, is in good order, and can be warranted shipped in good order for \$475. Address, remitting draft, to MUNN & CO. 19 6*

EUREKA! NEW YORK AHEAD OF THE World!—Patent Premium (Silver Medal, 1851, Amer. Inst.) Corn and Cane Stalk, Hay, and Straw Cutter. Bertholf's machine is warranted, after a test of 3 years, to surpass any machine of the kind ever offered in the United States,—strong words, but "FACTS are not assertions." It will cut, and leave in better condition, corn or cane stalks (almost any machine will cut hay or straw) and save 40 per cent of material. It being impossible for the inventor to visit the different sections of the United States, he has concluded to offer State or County Rights to manufacture and sell his patent machines: a profit of 33 per cent can be readily realized by manufacturing. Sales are unlimited. For information in regard to State or County rights Address (post-paid) ENGELBRECHT & HOOVER, Attorneys and Agents for the Patentee, 257 Broadway, New York. 19 4*

STRAW CUTTERS.—TESTIMONIALS.—JOHN BATES, of Morris Co., N. J., certifies "that he has used Bertholf's machine two years, and it answers his most sanguine expectations, can safely recommend it as being the best machine he ever saw."

LYSANDER PATTERSON, Paterson's Mills, Washington Co., Pa., says "that he has thoroughly tested Bertholf's Cutting Machine—that it is the best one he ever saw, and not liable to get out of order that it will pay for itself in a very short time, in the saving of fodder, and must come into general use."

CHAS. E. BROOKS, Orange Co., N. Y., "It surpasses any machine I ever saw or used—most powerful and efficient in its operations not complicated and easily kept in order."

CHAS. H. WOOD, Orange Co., N. Y., "It is the best I know of simple, and cuts the material better than any I have seen."

D. D. HALLOCK, Orange Co., N. Y., "The best machine I ever saw."

JONATHAN S. WOOD, Luzerne Co., Pa., "Works better than any machine I know of," &c. 19 1*

\$10 REWARD—I will pay the above amount to any person who will send by mail or otherwise, to my address, a perfect copy of the Jury Trial, commenced in May, 1848, by Hitchcock (an assignee of the Woodworth Patent) against Brown and others, in Vermont, within one month from this date. 19 3* SAML. B. SCHENCK, 64 Cortland st. N. Y.

THE WEEKLY SUN.—This large, interesting and excellent neutral Weekly newspaper,—the first dollar-a-year weekly paper ever printed—has now entered upon its sixteenth year of publication. Its contents embrace the very latest news from all parts of the United States and the world, received by Telegraph, from Correspondents and by Steamers; also Shipping Intelligence, Monetary Affairs, Prices, Current Agriculture, Reports of the various American Cattle markets, summaries of general news, interesting selections of Light Literature, Mechanics. Single subscriptions ONE DOLLAR A-YEAR.

WEEKLY SUN CLUB RATES.
Club of 6 copies . . . \$5
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Post-pay all letters; write name, Post-office, County, and State, plainly, and direct to 19tf BEACH BROTHERS, New York City.

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.—The undersigned having succeeded in counteracting effectually the influence of the changes of the temperature upon the pendulum, and introduced other important improvements in the construction of clocks, are prepared to furnish an article, superior in every respect (the highest grade warranted to vary less than two minutes in a year) to any made in the United States. Ample opportunity will be afforded to test their qualities. Glass (illustrated) dials of the most beautiful description furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y. "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—Scientific American. "Mr. Byram is a rare mechanical genius."—(Journal of Commerce. 19tf.

A. WILSON'S SEWING MACHINE, justly allowed to be the cheapest and best now in use, patented November 12, 1850; can be seen on exhibition at 195 and 197 Broadway (formerly the Franklin House, room 23, third floor), New York. Rights for territory or machines can be had by applying to 19 4* WM. S. LOVELL, Agent.

BILLINGS PATENT BAND WRENCH, for Wagons and Carriages.—This article is fully described and illustrated by engravings in No. 7, Vol. 7, of the Scientific American. The Patent Band Wrench applies to wagons and carriages where the common or square nut is used. They are perfectly tight and prevent all dust and dirt from reaching the axle. The wheel is taken off by means of a small pocket key. A Silver Medal was awarded this article by the American Institute at their late Fair in this city. The Bands are manufactured by the Patent Band Wrench Co., located at Claremont, N. H. Smith Van Horn & Co. are the agents for this city. Orders addressed to them, as above, will meet with prompt attention. A. M. BILLINGS, 12tf General Agent for the Co.

THE EXCELSIOR Sand and Emery Papers. are offered as new and superior articles, being manufactured by an improved process; the paper is made from the best Manila hemp, and consequently is very strong and lasting; the grits of the sharp- and most enduring kind, and is firmly attached to the paper with a remarkable evenness of surface; its freedom from ridges, stripes and other imperfections, recommends it to the notice of our mechanics. These papers have been used by many of our first mechanics, and are pronounced superior to all others. Every sheet is stamped Blanchard & Parsons, and warranted. Samples furnished at the office, No. 187 Water street (2nd story), New York. 14 6m* BLANCHARD & PARSONS.

P. W. GATES'S PATENT DIES FOR CUTTING SCREWS.—Patented May 8th, 1847.—This Die cuts Screws of any size, V or square thread, by once passing over the Iron. Also, Lead Screws for Lathes, Hoisting Screws, &c. All orders for Dies and Taps, with or without machines, will meet with prompt attention by addressing P. W. Gates, or Gates & McKnight, Chicago; Marshall, Bement & Colby, Philadelphia; Woodburn, Light & Co., Worcester, Mass. References—All the principal machine shops in New York, Philadelphia, and Boston. 13 6m*

ADIRONDAC American Cast Steel.—This steel has recently been greatly improved in uniformity, soundness, strength, and toughness. It is purely American, and will be sold as low as the imported; this improved quality is warranted superior to any other in market. Friends of home industry are requested to try this new and uniform steel. QUINCY & DELAPIERE, 15 6* Warehouse 81 John st., N. Y.

VENTILATION.—Mr. Ruttan, of Coburg, Canada, is desirous of an opportunity to direct the erection (for ventilation) of a good dwelling or school house in the city of New York. For particulars inquire at the Scientific American Office. 15 10*

LATHES FOR BROOM HANDLES, ETC.—We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3/4 to the inch and work as smoothly as on a straight line—and does excellent work. Sold without frames for the low price of \$25—boxed and shipped with directions for setting up. Address (post-paid) MUNN & CO. At this Office.

FOR SALE.—An Iron Foundry, with Patterns, Flasks, &c.; also engine and other lather, upright and horizontal drills, machinery, tools, &c. The foundry building is 63 by 34 ft., with a projection for cupola, and is well fitted for doing a large amount of business. There is also connected with the same a Blacksmith and Pattern Shop. Water power is used, and a large amount can be had at a reasonable rent. Persons wishing to engage in this profitable branch of business, will find it for their interest to call and examine the premises. Terms of payment made satisfactory. For particulars inquire of SAML. DEMING, Farmington, Ct., 1851. 18 4*

MORTISING MACHINE.—Dear Sirs: I received the Portable Mortising Machine about 3 weeks ago; I have used it, and am very well pleased with it. It is the best plan of a machine of the kind I have ever seen. W. R. McFARLAND, Nashville, Tenn., 1851. This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO. 18*

FRENCH BURR STONES.—We can furnish an excellent run of Burr Stones, 4 1/2 feet, for \$145, carefully put upon ship board. Apply to MUNN & CO. 18*

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., have on hand six 12 ft. slide lathes, 28 in. swing; also four 8 ft. do.; 21 in. swing, with back and screw gearing, with all the fixtures; one 5 ft. power planer; 12 drill presses, 4 bolt cutting machines, 30 small slide rests; 5 back geared hand lathes, 21 in. swing; 15 do. not geared; 8 do. 17 in. swing on shears 5 1/2 feet; 25 ditto with and without shears, 13 in. swing; counter shafts, all hung if wanted suitable to the lathes. Scroll chucks on hand; also index plates for gear cutting. Cuts of the above can be had by addressing as above, post-paid. 9tf

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the above named foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 5tf

WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions. Orders respectfully solicited and punctually attended to. Washington Factory, Newark, N. J. 7 20*

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists. 9tf

MACHINERY.—S. C. HILLS, No. 12 Platt-st. N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mortising and Tenoning machines; Belting; machinery, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 13 tf

WOODWORTH'S PLANING MACHINE.—For sale, the right to use this justly celebrated labor-saving machine in the following States, viz., Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 208 Broadway. 17 12*

WOOD'S IMPROVED SHINGLE MACHINE.—Patented January 8th 1850, is without doubt the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber and so great was the favor with which this machine was held at the last Fair of the American Institute that an unthought premium was awarded to it in preference to any other on exhibition. Persons wishing for rights can address (post-paid) JAMES D. JOHNSON, New Haven, Ct.; or WM. WOOD, Westport, Ct.; All letters will be promptly attended to. 37tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. N. Y.—The subscriber is constantly receiving and offers for sale a great variety of articles connected with the mechanical and manufacturing interest, viz.: Machinists' Tools—engines and hand lathes; iron planing and vertical drilling machines; cutting engines, slotting machines; bolt cutters; slide rests; universal chucks &c. Carpenters' Tools—mortising and tenoning machines; wood planing machines &c. Steam Engines and Boilers from 5 to 100 horse power. Mill Gearing—wrought iron shafting; brass and iron castings made to order. Cotton and Woolen machinery furnished from the best makers. Cotton Gins; hand and power presses. Leather Banding of all widths made in a superior manner; manufacturers' Findings of every description. P. A. LEONARD. 10tf

MANUFACTURE OF PATENT WIRE Ropes and Cables—for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, tilters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y*

RAILROAD CAR MANUFACTORY.—TRAICY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty, and good taste, as well as strength and durability, we are determined our work shall not be surpassed. JOHN R. TRACY, THOMAS J. FALES. 14tf.

McCORMICK'S PATENT REAPERS AND MOWERS.—1700 of these machines, for which the great Medal of the World's Fair was awarded, are being manufactured at Chicago, Ill., with the intention of supplying the South-eastern States for the next harvest. The gold medal of the Chicago Institute was recently awarded for this Reaper and Mower, tested against two other mowers, in cutting prairie grass; and the first premium of the State Agricultural Society of Wisconsin, Michigan, and Pennsylvania, were also awarded at their late Fairs. Price \$120 at Chicago, and \$122 delivered at Philadelphia; terms otherwise accommodating. 9tf

PATENT CAR AXLE LATHE—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 pounds, price \$600. I will furnish a man with each lathe, who will turn and finish axles for 50 cents each, if desired. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 7 6m*

LOGAN VAIL & CO., No. 9 Gold street, New York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11tf

HAWKIN'S Stave Dressing Machine.—Is now in operation in the city of Milwaukee, Wis., and will dress from 6 to 8000 staves per day, ready for the truss hoops, and at one operation. Rights for States and Counties, and also machines, for sale, apply to WM. HAWKINS, Patentee, Milwaukee, Wis. 15 20*

A. B. ELWOOD, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 15tf